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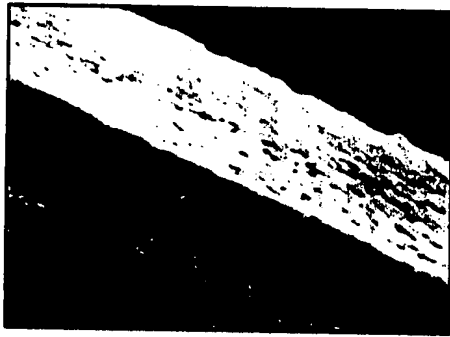
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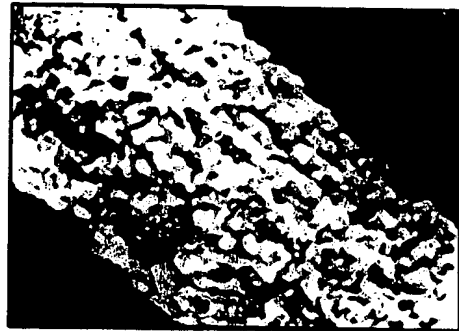
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FIG. 1A



1 μ m
3.5KV X33,000 8mm

FIG. 1B



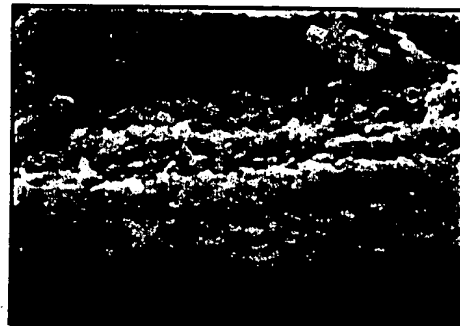
1 μ m
414619 3.5KV X33,000 24mm

FIG. 1C



1 μ m
3.5KV X18,000 7mm

FIG. 1D



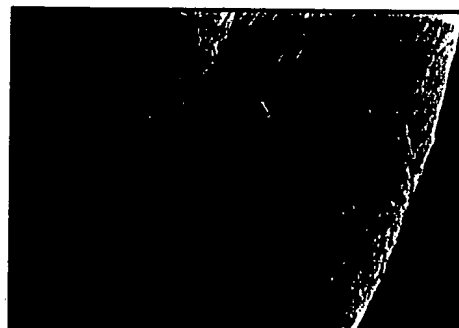
1 μ m
3.0KV X45,000 15mm

FIG. 1E



1 μ m
0020 3.5KV X4,500 15mm

FIG. 1F



1 μ m
0014 3.5KV X4,300 15mm

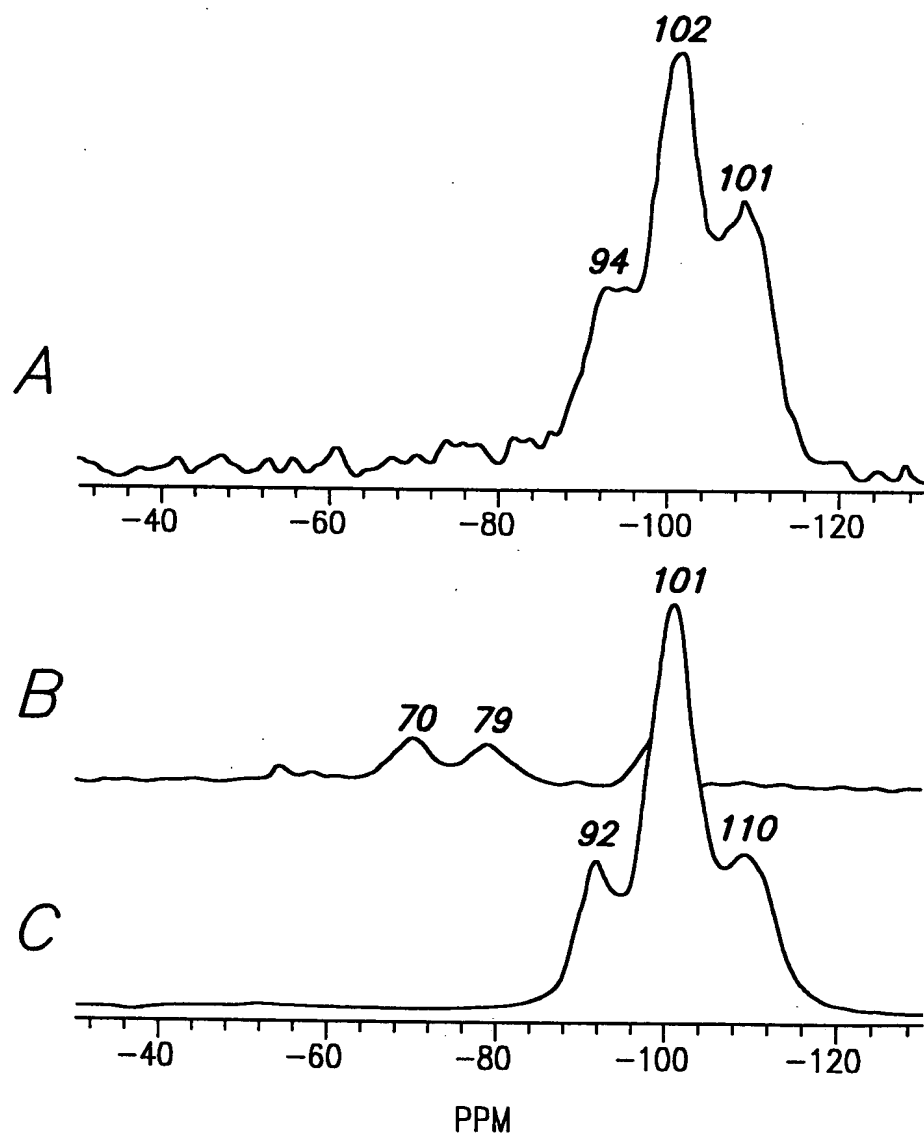


FIG. 2

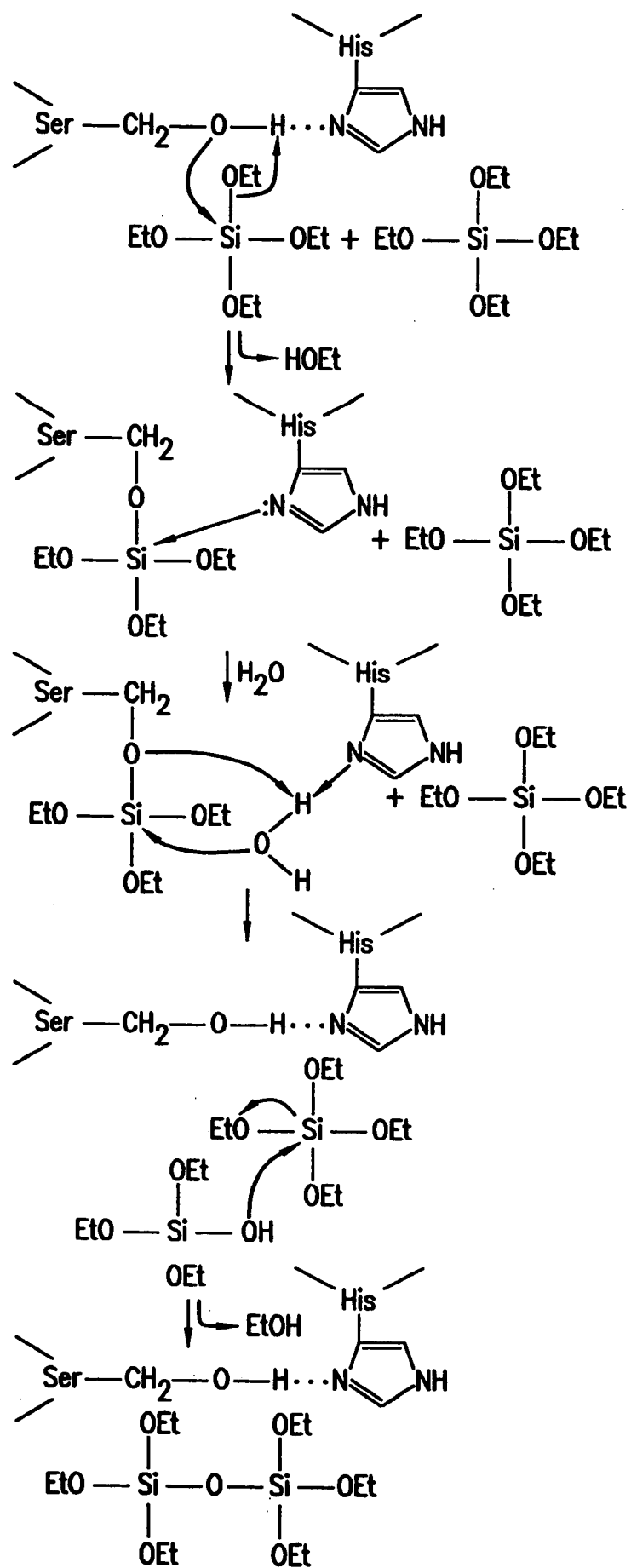
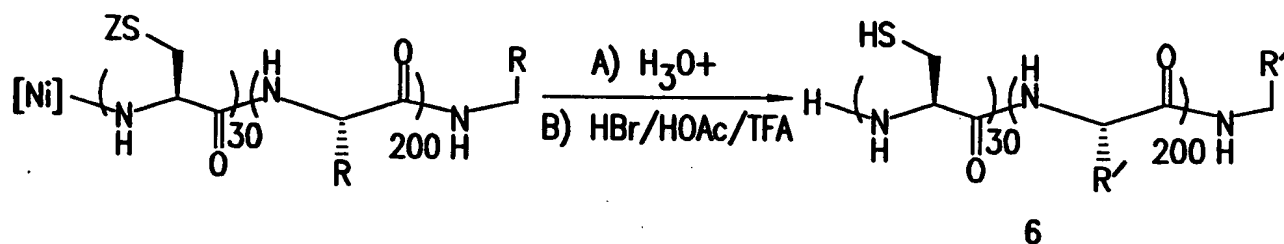
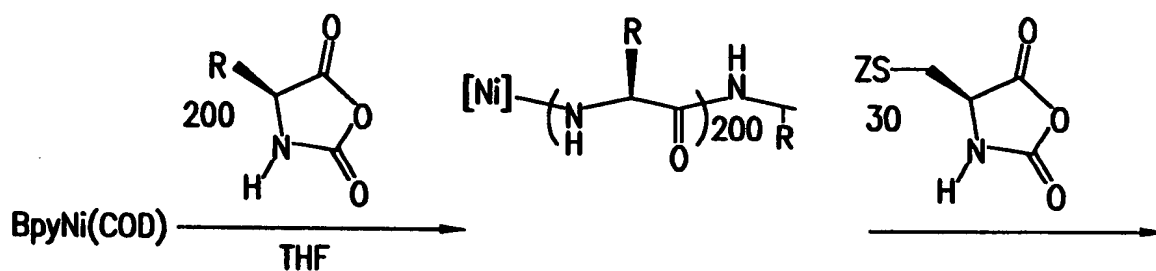


FIG. 3



$[\text{Ni}]$ = INITIATOR ENDGROUP

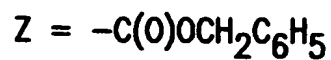
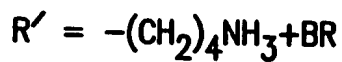
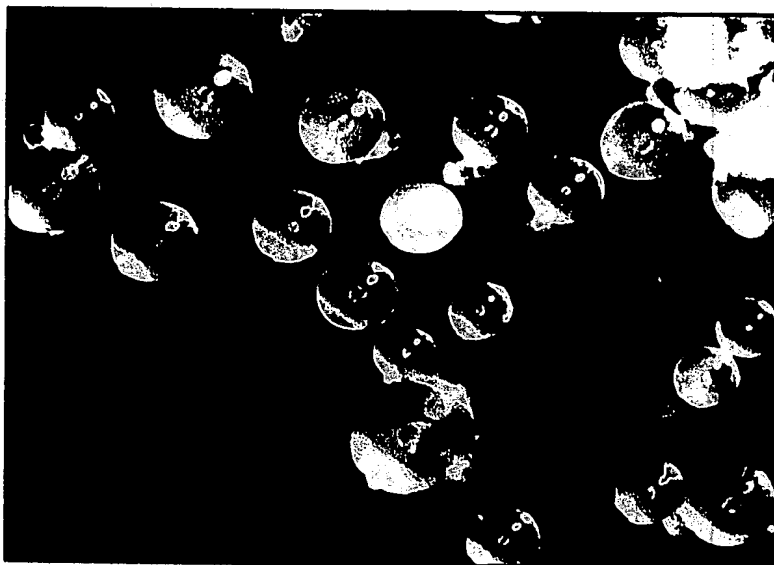


FIG. 4

FIG. 5A



— 200 μ m

FIG. 5B



— 1 μ m

3.0KV X6,500 14mm

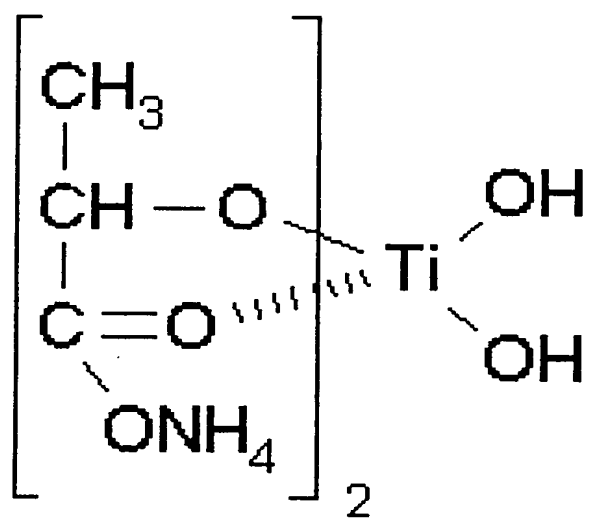


FIG. 6



FIG. 7A

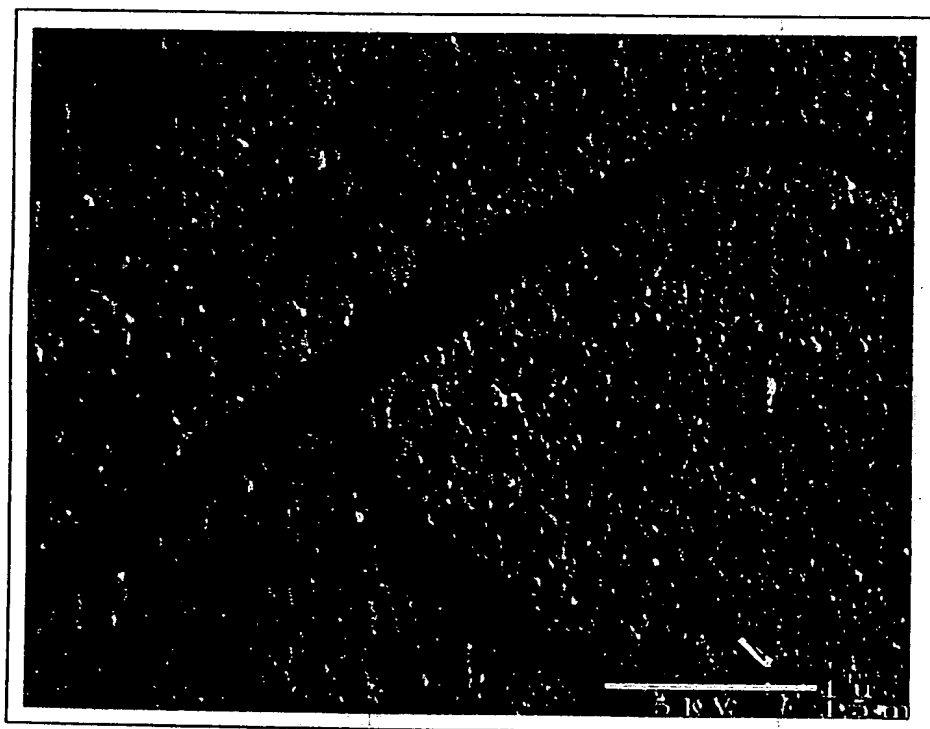


FIG. 7B

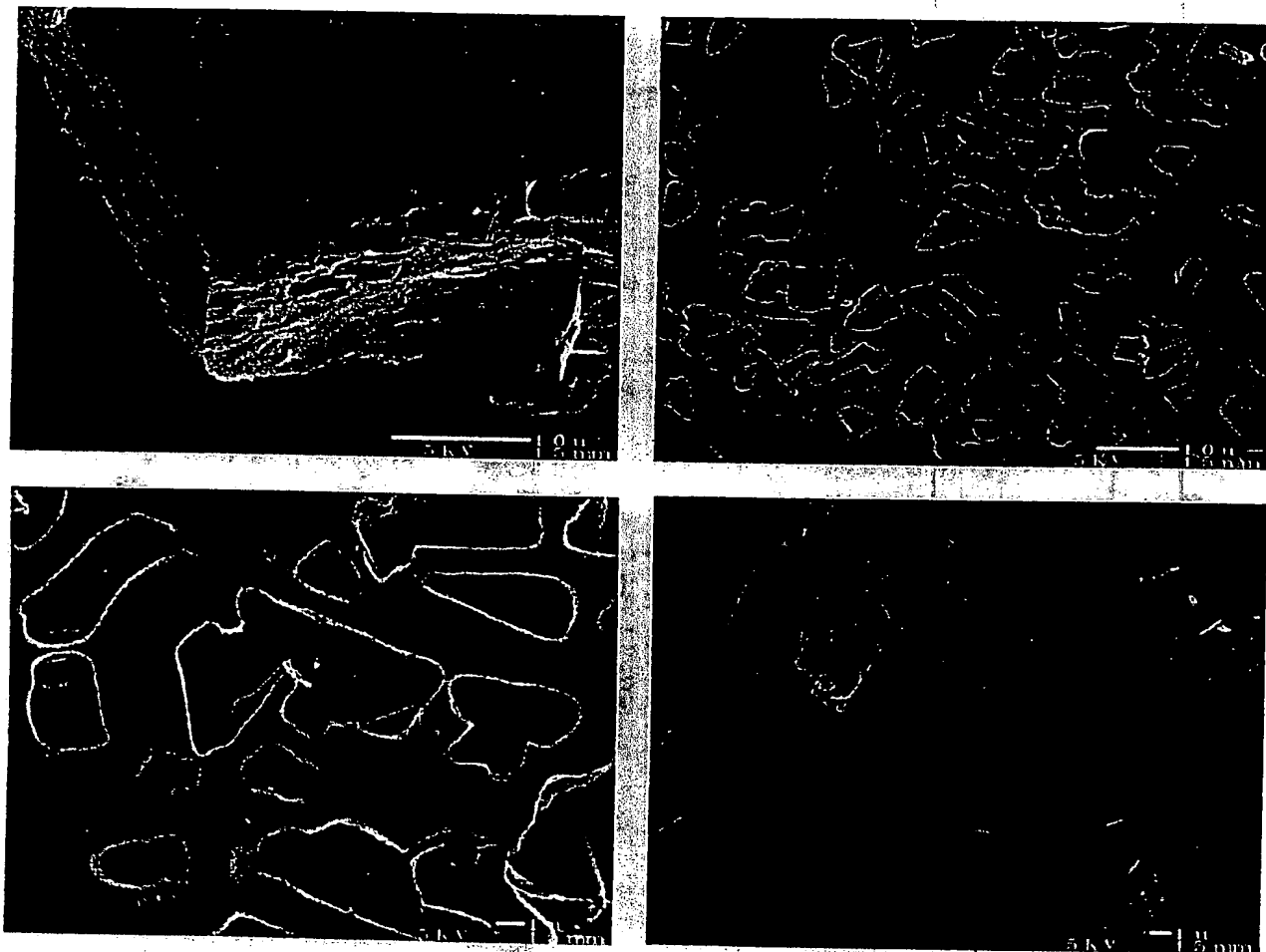


FIG. 8

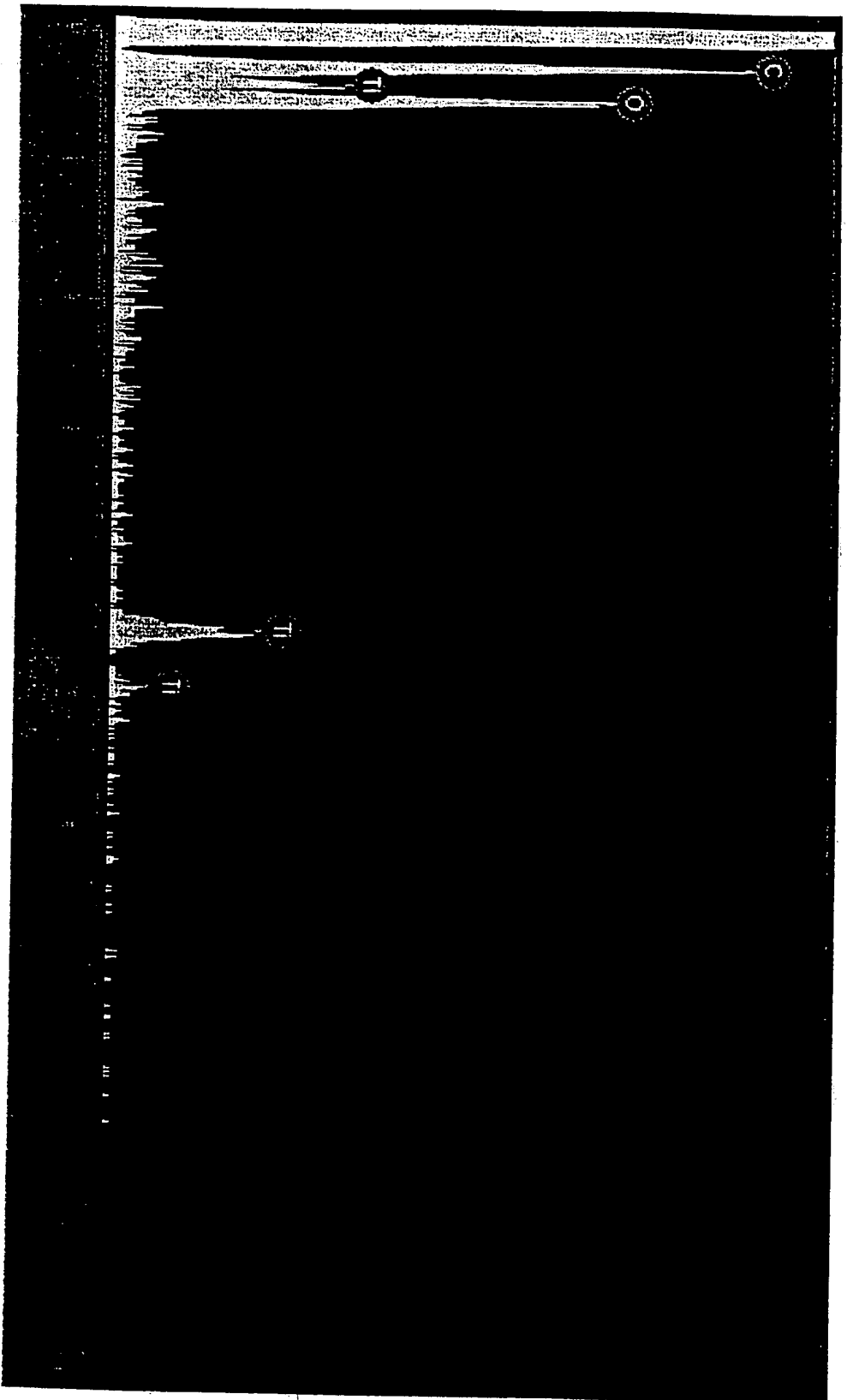


FIG. 9

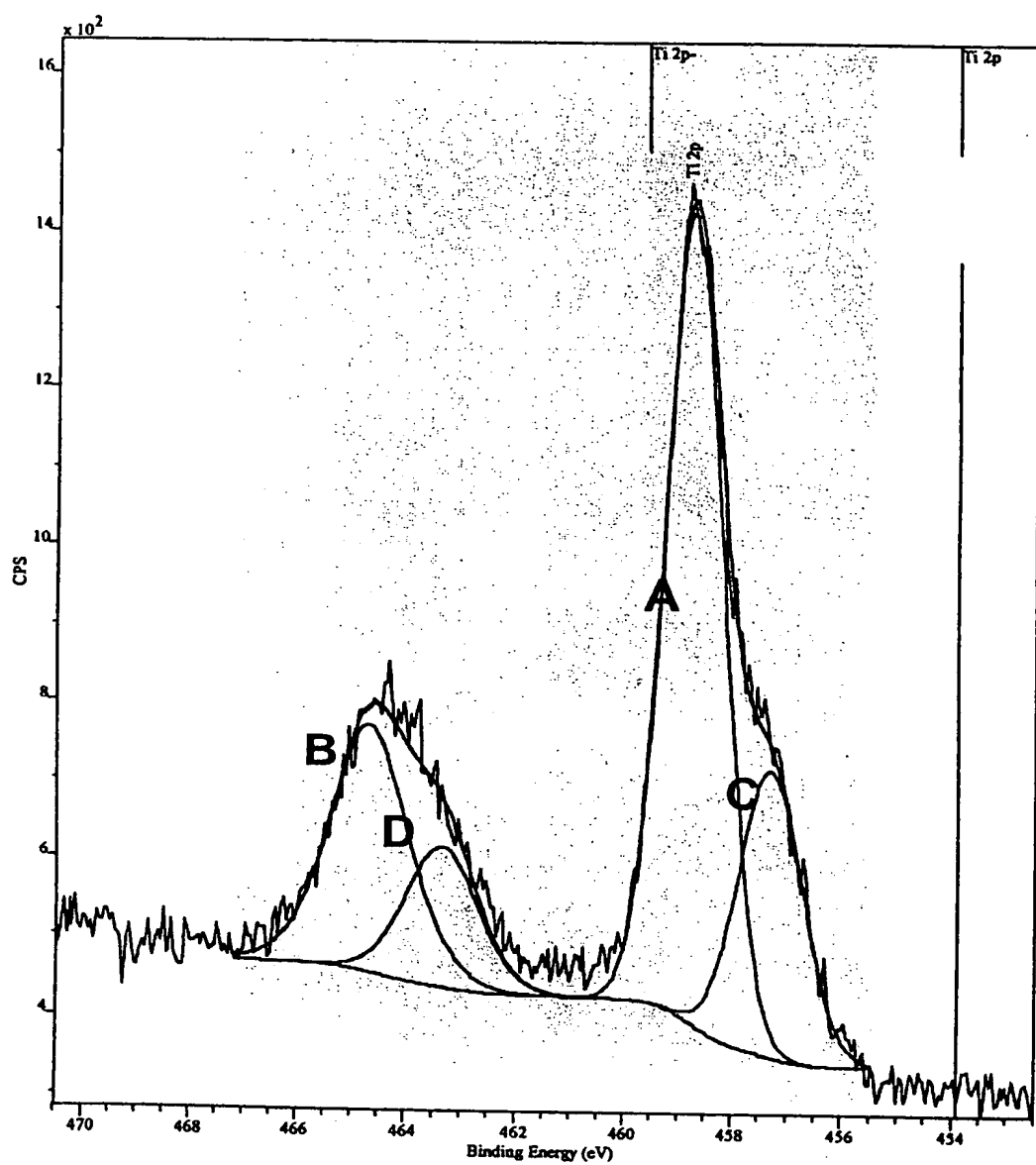


FIG. 10

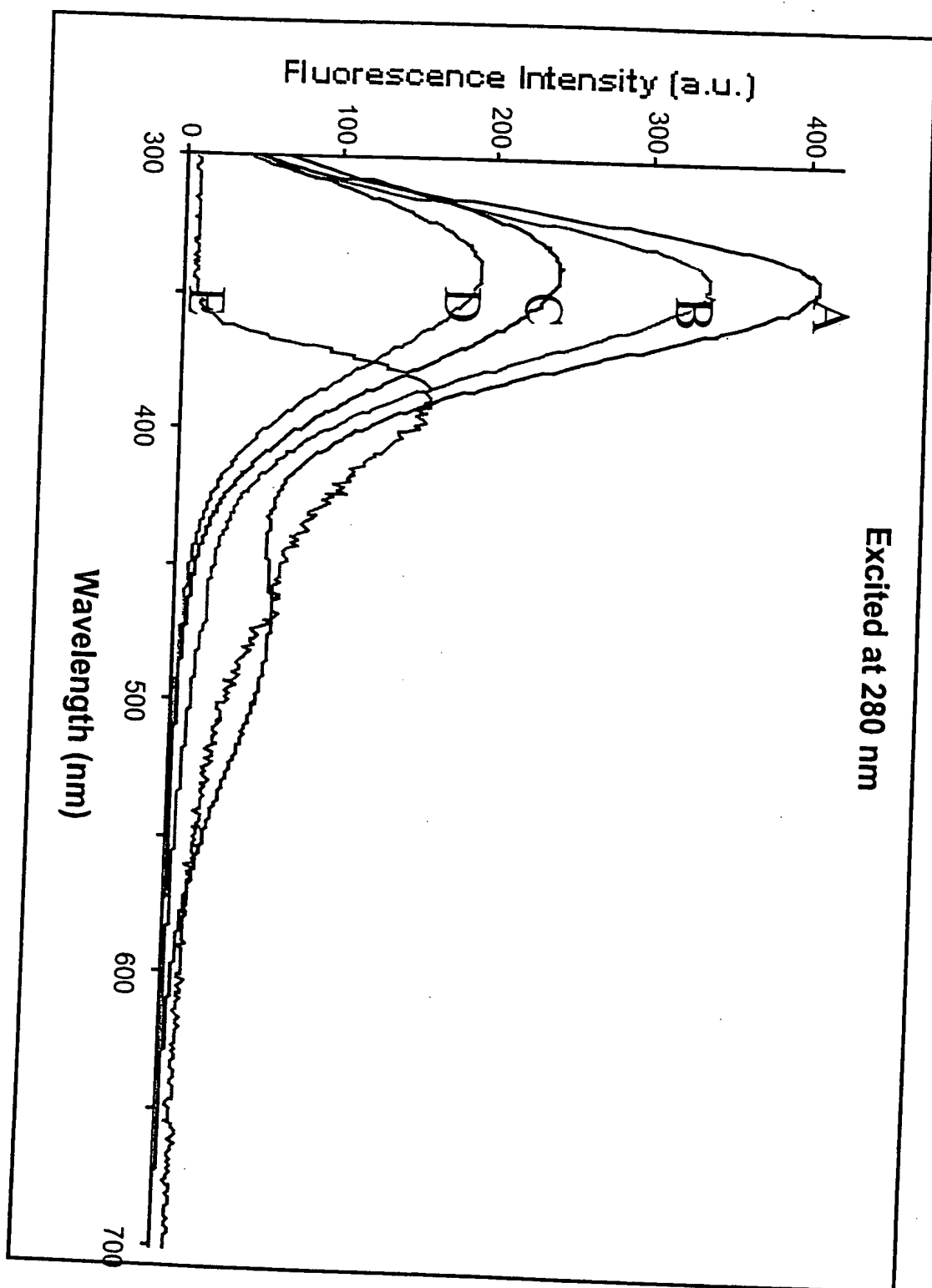


FIG. 11

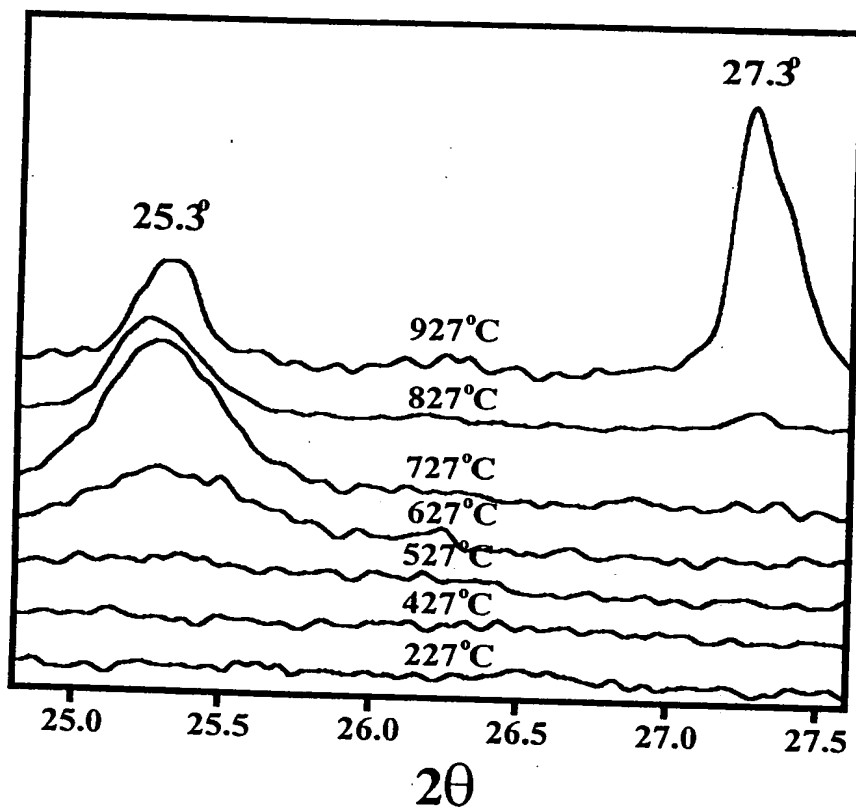


FIG. 12

Catalyst	Temp	Polymorph	Av. Crystal Size (nm)
Silicatein	400	Anatase	2.0
	600	Anatase	9.1
	800	Anatase	19.0
	850	3% Anatase 97% Rutile	54.2
Base	600	Anatase	13.5
	700	98% Anatase 2% Rutile	22.6
	800	40% Anatase 60% Rutile	34.1 42.0
	850	Rutile	53.1
None	600	Anatase	4.5
	800	10% Anatase 90% Rutile	32.0
	850	Rutile	44.8

FIG. 13